

NOVEMBER/DECEMBER 2025

**23PMB12 — IMMUNOLOGY,
IMMUNOMICS AND MICROBIAL
GENETICS**

Time : Three hours

Maximum : 75 marks



SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define immune system.
2. Write the full form of MHC.
3. List out any two advantages of monoclonal antibody.
4. Define antigen.
5. What is hypersensitivity.
6. Short notes on immunodiffusion.
7. Define Chromatin.
8. Define phosphorylation.

9. Write the two uses of conjugation.
10. Define transposition.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Discuss about acquired immunity.

Or

- (b) Outline the structure of MHC molecules.

12. (a) Explain about immunoglobulin.

Or

- (b) Brief notes on cell mediated cytotoxicity.

13. (a) Difference between the primary immunodeficiency and secondary immunodeficiency.

Or

- (b) Elaborate the note on immunomics.

14. (a) Discuss about structure of prokaryote genome.

Or

- (b) Brief account on methylation.

15. (a) Explain about conjugation and its uses.

Or

- (b) Discuss about transformation.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Give a detailed account on the cells and organs of immune system.
17. Summarize the monoclonal antibodies production.
18. Brief account on ABO and Rh system.
19. Elaborate notes on eukaryotic genome.
20. Discuss about the transduction and its types.